

TITLE 24 RESIDENTIAL ANSWERS

The California Energy Commission will provide a FREE "Webcast" on January 15, 2003, from the headquarters of the Sacramento Municipal Utility District (SMUD). The Webcast is an all-day (8:00 a.m.-5:00 p.m.) **live**, online, real-time, interactive training session on the Energy Standards for residential buildings. The event will include several expert instructors, pre-recorded videos, Power Point presentations, and answers to e-mail questions from participants.

You can view the Webcast on any personal computer from anywhere, providing you have a high-speed connection such as T-1 line, Cable Modem or DSL. You can also view the training sessions on screens at locations throughout California where the major California Utilities (Southern California Edison, Southern California Gas, San Diego Gas and Electric and Pacific Gas and Electric) will be co-hosting the sessions. They will provide rooms and refreshments to local participants in Downey, Irwindale, San Francisco, Stockton and San Diego. Participants can e-mail questions to the instructors for immediate answers.

Pre-register at www.energyvideos.com

Webcast Agenda - January 15, 2003 from SMUD

Agenda subject to change without notice
Steve Easley will be the Moderator for the day

Segment	Time of Day	Topics (Are all Residential)	Instructor
Getting Started	8:00 to 8:30	Streaming videos from the Commission's Online Training Series	Various
1	8:30 to 9:00	Welcome	Steve Easley
2	9:00 to 10:00	Overview 2001 Residential Standards - Major Changes	Douglas Beaman
3	10:00 to 11:00	HVAC, TXV, Refrig. Charge, Air Flow,	John Proctor
4	11:00 to Noon	Plan Check - Overview	Douglas Beaman
5	12:00 to 12:30	Streaming videos from the Commission's Online Training Series	Various
6	12:30 to 1:30	CHEERS	Tom Hamilton & Scott Johnson
7	1:30 to 2:30	Insulation	Rick Chitwood
8	2:30 to 3:15	Inspection - Getting the "Big" items	Douglas Beaman
9	3:15 to 4:00	Fenestration	Douglas Beaman
10	4:00 to 4:30	The Building Industry and Building Departments - "Working Together for the Solutions"	Rob Hammon
11	4:30 to 5:00	Update on 2005 Standards & Close	John Eash, Steve Easley

**Special
WEBCAST
EDITION**
FROM SMUD ON
JANUARY 15, 2003
8:00 A.M. - 5:00 P.M.

...continued on page 2

WEBCAST ...continued from page 1

Sites where Building Department staff can participate are:

-  **SMUD**, contact www.smud.org or call 916-732-6738
-  **SoCal Gas/SDG&E @ Downey and San Diego**, contact jeash@energy.state.ca.us.
-  **PG&E @ Stockton and San Francisco**, contact KML2@pge.com
-  **SCE @ C-TAC** contact jeash@energy.state.ca.us.
-  **Energy Commission-Hearing Room A**, contact jeash@energy.state.ca.us.

The entire recorded Webcast will be available on the Commission's Consumer Energy Center site (www.energyvideos.com) for viewing at a later date (via streaming video or download). This site currently links to more than 100 (Commission contracted) energy-related training streaming videos. All questions received (including those answered live), along with answers, will be posted on the website by February 1, 2003. Participants may also take an online test on the training and receive credit from the California Building Officials' (CALBO) training arm, the California Training Institute (CTI).

QUESTIONS and ANSWERS

RESIDENTIAL



May HVAC subcontractors test at rough-in for system leakage when "duct sealing" is required by the energy calculations?



Yes. Subcontractors are allowed, for purposes of the CF-6R testing and certification, to test at rough-in. Note that the installer must insure that the spaces between the register boots and the wallboard are sealed after the drywall is installed. Also, the installer is obligated to revisit every applicable house after the drywall is installed to check to see that no leaks have developed since the testing at rough-in. It is prudent for the subcontractor to lower their leakage targets (below 6%) at rough-in so that

they will not conflict with the HERS rater's testing that must be done after the drywall is installed.



May a certified HERS rater, who does the field verification and completes and signs the CF-4R, do the testing required for the builder or installer to certify compliance with Title 24 installation requirements on the CF-6R?



Yes. This approach only works where the certified HERS rater is doing field verification for every house. It is not allowable in the case where the HERS rater is doing field verification only on a sample of homes.

The builder or the installer must sign the CF-6R certifying compliance. The HERS rater may not sign the CF-6R. However, the builder or installer can rely on the HERS rater's diagnostic test results when the builder or installer signs the certification statement on the CF-6R. Of course, if the HERS rater determines that the compliance requirements are not met, the builder or installer may not

sign the CF-6R until action is taken to make whatever corrections are necessary. Once corrections have been made, and the HERS rater determines that all compliance requirements are met, the builder or installer may certify the work by completing and signing the applicable section of the CF-6R. The rater then must complete and sign the CF-4R for this building.

Note that HERS rater must complete diagnostic testing and field verification (as documented and certified on the CF-4R) after the measure is completely installed. For duct sealing, drywall must be completely installed before testing. A builder may contract with a certified HERS rater to complete testing at rough-in for quality control purposes, but such testing is not sufficient for meeting compliance requirements and certifications on the CF-4R.

NONRESIDENTIAL



Did one of the options expire for NFRC certification of manufactured windows used for nonresidential buildings?



Yes, after October 1, 2002 SHGC values for manufactured windows can no longer be calculated based on center of glass values. Now the SHGC must be based on NFRC 200 testing and labeling or obtained from the default table, Table 3-

12 of the Nonresidential Manual. SHGC values for site-assembled windows in buildings less than 100,000 square feet or with less than 10,000 square feet of site-assembled windows can still be calculated based on center of glass values. See Table 3-11 of the Nonresidential Manual.

Check the training calendars of utilities through the Energy Commission link! Go to: www.energy.ca.gov/title24/ and select **Builder Training & CEPE Exam**.

Did You Know?

RATER VERIFICATION OF THERMOSTATIC EXPANSION VALVES (TXVs)

Effective immediately, the Commission has approved two methods of field verifying the presence of a TXV. These methods are options to having a removable door or access panel to verify the TXV. These procedures may be used in lieu of the guidelines described in Section 3.6.7 of the Residential Manual.

Option 1:

Visually verify that a sensing bulb is running from inside the coil and that it is visible outside of the coil. You do not need to open the coil to complete this verification.

Please note that the sensing bulb will be attached to the suction line and should be covered by insulation. You will need to verify the sensing bulb by either removing sufficient insulation to see it or by feel.

Option 2:

This option is designed to allow a Rater to verify a TXV based upon manufacturer's nameplate data. To use this option three steps must be completed.

Step One:

Observe that for a particular brand and model that the manufacturer has installed a TXV at the factory.

Step Two:

The manufacturer's nameplate on the coil indicates that a TXV has been factory installed. The Rater may ask for clarification of the nameplate information from the distributor.

Step Three:

The Rater verifies that the nameplate information on the coil being inspected indicates that a TXV has been installed in that coil.

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The inside story:

FREE WEBCAST.....PAGE 1

-ORIGINATING FROM SMUD ON JANUARY 15, 2003

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#70

QUESTIONS & ANSWERS

RESIDENTIAL.....PAGE 2

-HERS QUESTIONS ANSWERED.....PAGE 2

NONRESIDENTIAL.....PAGE 3

-NEW REQUIREMENTS FOR NONRES GLASS.....PAGE 3

DID YOU KNOW.....PAGE 3

-RATER VERIFICATION OF TXVs.....PAGE 3

The New URL for Online Training Videos is www.energyvideos.com

For any questions or additional information relating to the new Standards contact the Energy Hotline at (800) 772-3300.



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